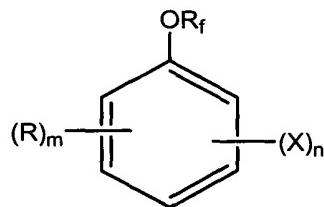


CLAIMS

What is claimed is:

1. A method of forming an active layer on an active surface, said method comprising:
  - 5 selecting a liquid composition comprising at least one liquid medium and at least one active material;
  - selecting an active surface; and
  - depositing the liquid composition onto the active surface; wherein, a contact angle of the liquid composition on the active surface is no greater than about 40°.
2. A method according to Claim 1, wherein the depositing the composition is discontinuous.
3. A method according to Claim 1, wherein the depositing is carried out by a process selected from ink jet printing, screen printing, and thermal transfer.
4. A method of forming an active material layer on an active surface, said method comprising:
  - selecting an active surface having a first surface tension;
  - treating the active surface resulting in a treated surface, wherein the treated surface has a second surface tension, and wherein the second surface tension is greater than the first surface tension;
  - and
  - selecting a liquid composition comprising at least one liquid medium wherein said liquid medium has a surface tension that is greater than the first surface tension of the selected active surface, and at least one active material; and
  - depositing the composition onto the treated surface.
5. A method according to Claim 4, wherein the active surface has been treated by at least one of the following treatments including:
  - 30 chemical etching, electrochemical reduction, corona discharge, plasma etching, ion beam treatment, electron beam treatment, laser ablation, photochemical treatment, applying at least one adhesion layer and combinations thereof.
6. A method according to Claim 4, wherein a contact angle of the liquid composition on the treated active surface is no greater than 40°.
7. A method according to Claim 5, wherein an adhesion layer comprises at least one material that is selected from metals, metal oxides, metal complexes, hydrophilic organic materials, and combinations thereof.

8. A method according to Claim 5, wherein an adhesion layer comprises at least one material that is selected from silica, alumina, metal phthalocyanines, and metal chelated oxinoid compounds and mixtures thereof.
- 5 9. A method of forming an active material layer on an active surface, said method comprising;  
selecting an active surface comprising a fluorinated material;  
selecting a liquid composition comprising at least one liquid medium and at least one active material; and
- 10 depositing the liquid composition onto the active surface, wherein, the composition liquid comprises at least one fluorinated compound.
10. A method according to Claim 9, wherein the liquid medium is a fluorinated compound.
- 15 11. A method according to Claim 10, wherein the active surface comprises a material selected from polyaniline combined with a fluorinated polymeric sulfonic acid, a polythiophene combined with a fluorinated polymeric sulfonic acid, a poly(dioxythiophene) combined with a fluorinated polymeric sulfonic acid, and mixtures thereof.
- 20 12. A method according to Claim 11, wherein the liquid medium comprises at least one compound that is selected from compounds having the structure



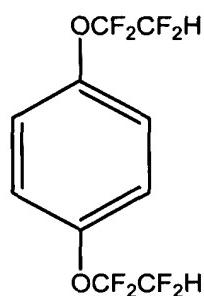
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wherein:  
R is  $\text{C}_1\text{-}\text{C}_{10}$  alkyl,  $\text{C}_1\text{-}\text{C}_{10}$  alkoxy, or  $\text{C}_1\text{-}\text{C}_{10}$  oxyalkyl,  
30  $\text{R}_f$  is  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated alkyl,  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated alkenyl,  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated oxyalkyl, or  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated oxyalkenyl,  
X is H, F, Cl, Br,  $\text{C}_1\text{-}\text{C}_{10}$  alkyl,  $\text{C}_1\text{-}\text{C}_{10}$  alkoxy,  $\text{C}_1\text{-}\text{C}_{10}$  oxyalkyl,  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated alkyl,  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated alkenyl,  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated oxyalkyl, or  $\text{C}_1\text{-}\text{C}_{10}$  fluorinated oxyalkenyl,

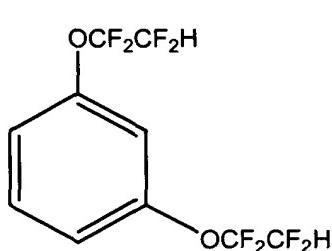
m is from 0-5, and

n is from 0-5, wherein m + n is no greater than 5.

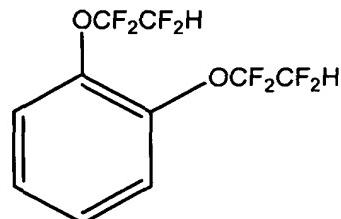
13. A method according to Claim 12, wherein the liquid medium comprises a material selected from compounds A through O and mixtures  
5 thereof:



A

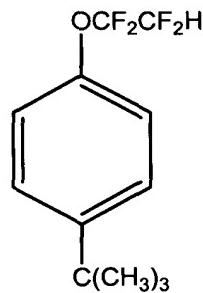


B

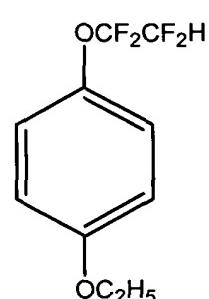


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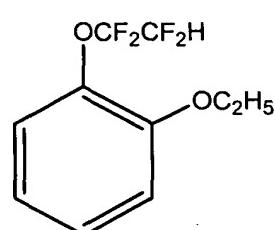
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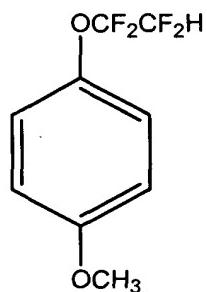
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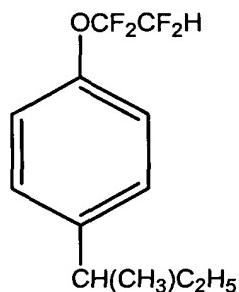
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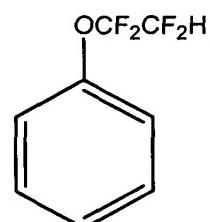
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I

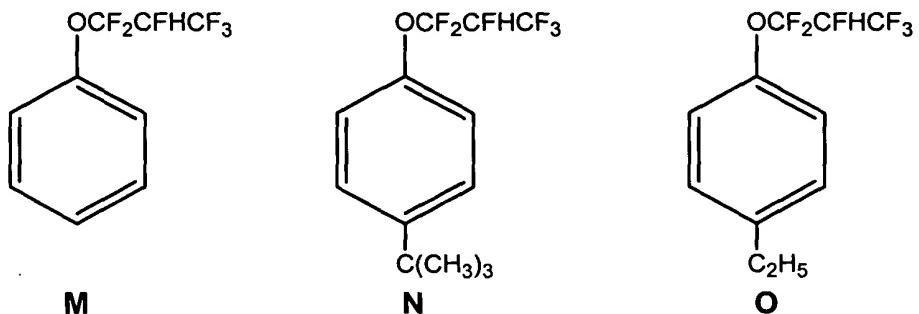


K



L

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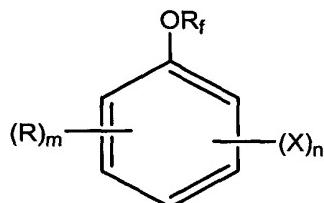


14. A method according to Claim 10, wherein the active material  
5 is electroluminescent.

15. A composition for depositing an active material onto a surface, said composition comprising:

the active material; and

at least one material selected from compounds having the structure



10

wherein:

R is  $\text{C}_1\text{-C}_{10}$  alkyl,  $\text{C}_1\text{-C}_{10}$  alkoxy, or  $\text{C}_1\text{-C}_{10}$  oxyalkyl,

15  $\text{R}_f$  is  $\text{C}_1\text{-C}_{10}$  fluorinated alkyl,  $\text{C}_1\text{-C}_{10}$  fluorinated alkenyl,  $\text{C}_1\text{-C}_{10}$  fluorinated oxyalkyl, or  $\text{C}_1\text{-C}_{10}$  fluorinated oxyalkenyl,

X is H, F, Cl, Br,  $\text{C}_1\text{-C}_{10}$  alkyl,  $\text{C}_1\text{-C}_{10}$  alkoxy,  $\text{C}_1\text{-C}_{10}$  oxyalkyl,  $\text{C}_1\text{-C}_{10}$  fluorinated alkyl,  $\text{C}_1\text{-C}_{10}$  fluorinated alkenyl,  $\text{C}_1\text{-C}_{10}$  fluorinated oxyalkyl, or  $\text{C}_1\text{-C}_{10}$  fluorinated oxyalkenyl,

20 m is from 0-5, and

n is from 0-5, wherein m + n is no greater than 5.

16. An organic electronic device comprising at least one first active layer and at least one second active layer comprising at least one active material, wherein (a) the active material in the second  
25

- active layer is deposited on the first active layer from a liquid composition having a contact angle with the first layer of no greater than about 40°; or
- 5       (b) at least one first active layer having an active surface was treated, such that its surface tension after treatment was greater than its surface before treatment, and wherein a liquid composition comprising at least one liquid medium, having a surface tension that is greater than the first surface tension of the selected active
- 10      surface, and at least one active material, and depositing the liquid composition onto the treated active surface of the first active layer; or
- 15      (c) where both (a) and (b) are practiced on the same first active layer or different first active layers.
17. An organic electronic device comprising at least one first active layer and at least one second active layer comprising at least one active material, wherein
- 20      the first active layer comprises a fluorinated material, and the active material in the second active layer is deposited on the first active layer from a liquid composition comprising at least one fluorinated compound.
18. An electronic device according to Claims 17 or 16 , wherein
- 25      the first active layer comprises a material selected from polyaniline combined with a fluorinated polymeric sulfonic acid, a polythiophene combined with a fluorinated sulfonic acid, a poly(dioxythiophene) combined with a fluorinated polymeric sulfonic acid, and mixtures thereof.
19. An electronic device according to Claim 16 or 17, wherein at
- 30      least one active material is photoactive.
20. An electronic device according to Claim 16 or 17, wherein the active material is deposited by a discontinuous method.
21. An organic electronic device of claim 16 or 17 wherein said device selected from devices that converts electrical energy into radiation,
- 35      detects signals through electronics processes, converts radiation into electrical energy, or includes one or more electronic components that include one or more organic semi-conductor layers.